

NEW COMBINATION IN CONOCLINIUM (ASTERACEAE: EUPATORIEAE)

Thomas F. Patterson

South Texas College
142 FM 3167
Rio Grande City, Texas 78582, U.S.A.
tfpatt@southtexascoll.edu

ABSTRACT

Conoclinium betonicifolium (P. Miller) King & H. Robinson var. **integrifolium** (A. Gray) T.F. Patterson is an inland taxon that has mostly oblanceolate to ovate leaf blades.

RESUMEN

Conoclinium betonicifolium (P. Miller) King & H. Robinson var. **integrifolium** (A. Gray) T.F. Patterson es un taxon del interior que usualmente tiene limbos foliares de oblanceolados a ovados.

A study of the genus *Conoclinium* DC. (Patterson 1994) reaffirmed an earlier observation by Asa Gray that a bimodal pattern of variation exists within *Conoclinium betonicifolium* (Miller) King & H. Robinson. The inland taxon, which has distinctive leaf morphology, is formally treated here at varietal rank. The distributions of the two varieties in Texas were mapped by Turner et al. (2003).

Conoclinium betonicifolium (Miller) King & H. Robinson, *Phytologia* 19:300. 1970. *Eupatorium betonicifolium* Miller, *Gard. Dict.* ed. 8. *Eupatorium* no. 9. 1768.

1. Leaf blades mostly oblong to oblong-lanceolate (commonly subauriculate), bases truncate to cordate, margins crenate; coastal habitats _____ a. var. **betonicifolium**
1. Leaf blades mostly oblanceolate to ovate (commonly attenuate), bases obtuse, truncate, or cordate, margins crenate or entire; inland habitats along streams and around lakes _____ b. var. **integrifolium**

a. Conoclinium betonicifolium (P. Miller) King & H. Robinson var. **betonicifolium**

Conoclinium betonicum DC., *Prodr.* 5:135. 1836. *Eupatorium betonicum* (DC.) Hemsley, *Biol. Cent.-Amer., Bot.* 2(7):93. 1881.

Flowering Apr-Jun, Sep-Oct. Gulf coast, dunes, beaches, sandy loam, roadside ditches, edge of woods, salt marshes; 0-10 m; Texas; Mexico (Tamaulipas, Veracruz, southward along Gulf coast).

b. Conoclinium betonicifolium (P. Miller) King & H. Robinson var. **integrifolium** (A. Gray) T.F. Patterson, comb. nov. BASIONYM: *Conoclinium betonicum* DC. var. *integrifolium* A. Gray, *Smithsonian Contr. Knowl.* 3(5):88. 1852. *Conoclinium integrifolium* (A. Gray) Small, *Fl. S.E. U.S.* 1170. 1903. TYPE: U.S.A. TEXAS. MAVERICK CO.: Rio Grande and Escondida Creek, 1848, C. Wright s.n. (HOLOTYPE: GH; ISOTYPES: GH, US).

Flowering Jun–Sep. Inland along streams, around lakes, marsh edges, saline soil near irrigation, old fields; 50–1000 m; Texas; Mexico (Chihuahua, Coahuila, Jalisco, Nuevo León, Puebla, San Luis Potosí, Tamaulipas).

ACKNOWLEDGMENTS

I thank Guy Nesom (BRIT) and John Strother (UC) for their assistance with this paper.

REFERENCES

- PATTERSON, T.F. 1994. A taxonomic revision of *Conoclinium* DC. (Asteraceae, Eupatorieae). M.S. thesis. University of Texas.
- TURNER, B.L., H. NICHOLS, G.C. DENNY, and O. DORON. 2003. Atlas of the vascular plants of Texas. Sida, Bot. Misc. 24 (Vol. 1, Dicots):1–648.